CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT IAF

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

QC ABSTRACT

Nameof Work: Providing RO Plant at General Hospital Yelahanka Ward No.01, BBMP, Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	1:3:6	3.36 Cum	1	1	Cement Sand, Aggregates	One Test Per Lot
2	M25	3.77 Cum	1	2	Concrete Cube Compressive Strength	-
3	CC Blocks - 400x200x200	66.01 Sqm	1	1	Concrete Blocks Compressive Strength	-
4	Steel	0.21 Tonne	1	1	-	-
5	MS Angular Truss	145.80 Kgs	1	1	-	-
6	Vitrified Tiles	13.52 Sqm	1	1	-	-
7	CPVC Pipe - 32mm	36.00 Mtrs	1	1	-	-
8	CPVC Pipe - 20mm	25.00 Mtrs	1	1	-	-

Cubes

0-5 Cum	1Set
6-15 Cum	2Set
16-30 Cum	3Set
31-50 Cum	4Set

Add 1set for extra 50Cum

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No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/NS/W.No.01/2021-22 Date: 06.01.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. N Shivakumar,** Contractor, Bangalore.
NAME OF THE WORK	:	Providing RO Plant at General Hospital Yelahanka Ward No.01, BBMP, Bangalore.
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE		December - 2021
DATE OF TESTING		04.01.2022 to 06.01.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	330 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

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Job No.: CACE/BBMP/NS/W.No.01/2021-22

Date : 06.01.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. N Shivakumar, Contractor, Bangalore.**

Name of Work : Providing RO Plant at General Hospital Yelahanka Ward No.01, BBMP, Bangalore.

Date of Testing : 06.01.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	139	13.90	22.30	77.7	75-100
1.18	185	18.50	40.80	59.2	55-90
600 Micron	155	15.50	56.30	43.7	35-59
300 Micron	221	22.10	78.40	21.6	8-30
150 Micron	146	14.60	93.00	7.0	0-10

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Job No.: CACE/BBMP/NS/W.No.01/2021-22 Date : 06.01.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. N Shivakumar, Contractor, Bangalore.**

Name of Work : Providing RO Plant at General Hospital Yelahanka Ward No.01, BBMP, Bangalore.

Date of Testing : 06.01.2022

Material : Sand - Plastering Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	14	1.40	1.40	98.6	95-100
2.36	16	1.60	3.00	97.0	95-100
1.18	38	3.80	6.80	93.2	90-100
600 Micron	75	7.50	14.30	85.7	80-100
300 Micron	255	25.50	39.80	60.2	20-65
150 Micron	510	51.00	90.80	9.2	0-15

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Job No.: CACE/BBMP/NS/W.No.01/2021-22 Date : 06.01.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency : **Sri. N Shivakumar, Contractor, Bangalore.**
Name of Work : Providing RO Plant at General Hospital Yelahanka Ward No.01, BBMP, Bangalore.
Date of Testing : 06.01.2022
Material : Sand - Masonry Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	14	1.40	1.40	98.6	90-100
1.18	39	3.90	5.30	94.7	70-100
600 Micron	85	8.50	13.80	86.2	40-100
300 Micron	246	24.60	38.40	61.6	5-70
150 Micron	482	48.20	86.60	13.4	0-15

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Job No.: CACE/BBMP/NS/W.No.01/2021-22 Date : 06.01.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. N Shivakumar, Contractor, Bangalore.**

Name of Work : Providing RO Plant at General Hospital Yelahanka Ward No.01, BBMP, Bangalore.

Date of Testing : 06.01.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	176	3.5	3.5	96.5	95-100
10	2462	49.2	52.8	47.2	25-55
4.75	1958	39.2	91.9	8.1	0-10

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Job No.: CACE/BBMP/NS/W.No.01/2021-22 Date : 06.01.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. N Shivakumar, Contractor, Bangalore.**

Name of Work : Providing RO Plant at General Hospital Yelahanka Ward No.01, BBMP, Bangalore.

Date of Testing : 06.01.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	189	1.26	1.26	98.74	95-100
20	8236	54.91	56.17	43.83	30-70
10	3265	21.77	77.93	22.07	10-35
4.75	2815	18.77	96.70	3.30	0-5

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Job No.: .CACE/BBMP/NS/W.No.01/2021-22 Date : 14.01.2022

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. N Shivakumar, Contractor, Bangalore.**

Name of the Work : Providing RO Plant at General Hospital Yelahanka Ward No.01, BBMP, Bangalore.

Date of Testing : 14.01.2022

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (N)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	32.9	415.2	5.19	2056.25	Minimum required Compressive Strength of Individual Units 5.00N/mm^2
2	Block 2	33.5	426.4	5.33	2093.75	
3	Block 3	34.6	420.9	5.26	2162.50	
4	Block 4	33.8	419.5	5.24	2112.50	

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Job No.: CACE/BBMP/NS/W.No.01/2021-22 Date: 25.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	: **Sri. N Shivakumar, Contractor, Bangalore.**
Name of the work	: Providing RO Plant at General Hospital Yelahanka Ward No.01, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2022	25.01.2022	8.136	389.6	17.32
2	18.01.2022	25.01.2022	8.150	405.2	18.01
3	18.01.2022	25.01.2022	8.146	413.2	18.36

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Job No.: CACE/BBMP/NS/W.No.01/2021-22 Date: 15.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. N Shivakumar, Contractor, Bangalore.**

Name of the work : Providing RO Plant at General Hospital Yelahanka Ward No.01, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2022	15.02.2022	8.198	606.3	26.95
2	18.01.2022	15.02.2022	8.156	612.2	27.21
3	18.01.2022	15.02.2022	8.138	626.8	27.86

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Job No.: CACE/BBMP/NS/W.No.01/2021-22 Date: 09.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. N Shivakumar, Contractor, Bangalore.**

Name of the work : Providing RO Plant at General Hospital Yelahanka Ward No.01, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.02.2022	09.02.2022	8.146	385.3	17.12
2	02.02.2022	09.02.2022	8.152	399.8	17.77
3	02.02.2022	09.02.2022	8.138	403.6	17.94

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Job No.: CACE/BBMP/NS/W.No.01/2021-22 Date: 02.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. N Shivakumar, Contractor, Bangalore.**

Name of the work : Providing RO Plant at General Hospital Yelahanka Ward No.01, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.02.2022	02.03.2022	8.184	610.3	27.12
2	02.02.2022	02.03.2022	8.169	626.3	27.84
3	02.02.2022	02.03.2022	8.152	609.1	27.07

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Job No.: CACE/BBMP/NS/W.No.01/2021-22

Date: 04.03.2022

TEST REPORT ON CPVC PIPE

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri. N Shivakumar, Contractor, Bangalore.**

Name of Work : Providing RO Plant at General Hospital Yelahanka Ward No.01, BBMP, Bangalore.

Sample Supplied by: : AGENCY

BIS Code: : IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: : CPVC pipe 20mm dia

Date of Testing : 04.03.2022

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	22.2	22.2 mm
2	Mean Outside Diameter (mm)	22.2	Min 22.1 mm Max 22.3 mm
3	Outside Diameter at Any Point (mm)	22.3	Min 22.0 mm Max 22.4 mm
4	Density	1480Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Job No.: CACE/BBMP/NS/W.No.01/2021-22

Date: 04.03.2022

TEST REPORT ON CPVC PIPE

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. N Shivakumar,** Contractor, Bangalore.

Name of Work : Providing RO Plant at General Hospital Yelahanka Ward No.01, BBMP, Bangalore.

Sample Supplied by: : AGENCY

BIS Code: : IS 13360(Part3/Sec 1) 1995
IS 15778:2007

Sample Identification: : CPVC pipe 32mm dia

Date of Testing 04.03.2022

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	34.8	34.9 mm
2	Mean Outside Diameter (mm)	34.9	Min 34.8 mm Max 35.0 mm
3	Outside Diameter at Any Point (mm)	35.0	Min 34.7 mm Max 35.1 mm
4	Density	1455 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Job No.: CACE/BBMP/NS/W.No.01/2021-22 Date: 07.03.2022

TEST REPORT ON STRUCTURAL STEEL

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. N Shivakumar, Contractor, Bangalore.**

Name of work : Providing RO Plant at General Hospital Yelahanka Ward No.01, BBMP, Bangalore.

Specimen Size : ISA-50X50X6mm (1m Length)

Date of Testing : 07.03.2022

Sl.No	Description	Result
1	Thickness	6.15 mm
2	Width	50.0 mm
3	Weight / Meter	4.64 Kg

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

A.E.E

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/NS/W.No.01/2021-22

Date: : 09.03.2022

TEST REPORT ON VITRIFIED TILES

*Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

*Agency : **Sri. N Shivakumar, Contractor, Bangalore.**

*Name of Work : Providing RO Plant at General Hospital Yelahanka Ward No.01, BBMP, Bangalore.

Technical Reference : IS: 13630 - 2006 - Method of Testing Vitrified Tiles
IS 15622 - 2006 - Specification of Vitrified Tiles

No. of Samples Tested : 05 (Five)

Date of Testing 05.03.2022 to09.03.2022

I. MODULUS OF RUPTURE

Sl. No.	Modulus of Rupture (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	48.5	47.40	Average 47, indivisual minimum 44 N/mm^2
2	47.6		
3	47.3		
4	46.9		
5	46.7		

II. CHEMICAL RESISTANCE

Sl. No.	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	No visible effect	Class AA, min (13630 Part 8)
2	No visible effect	
3	No visible effect	
4	No visible effect	
5	No visible effect	

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III. STAIN RESISTANCE

Sl. No.	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	Stain Removed by Water	Class 1, min (13630 Part 8)
2	Stain Removed by Water	
3	Stain Removed by Water	
4	Stain Removed by Water	
5	Stain Removed by Water	

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